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# PATENT COOPERATION TREATY

## PCT

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D 0 1 SEP 2005

Applicant's or agent's file referen	се	WIPO
2003P05592WO	FOR FURTHER ACTIO	N See Form PCT//PEA/416
International application No.	International City	
PCT/EP2004/051064	International filing date (day/milion) 09.06.2004	day///orallyear)
		15.07.2003
H05K7/02, G02F1/13	(IPC) or national classification and IPC	
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Applicant		
SIEMENS AKTIENGESELL	SCHAFT et al	
1. This report is the interna	tional preliminary examination report, a	stablished by this International Preliminary Examining
2. This REPORT consists a	tional preliminary examination report, es and transmitted to the applicant accor	stablished by this International Preliminary Examining ding to Article 36.
2. This REPORT consists of	of a total of 5 sheets, including this cour	er sheet.
o. This report is also accom	panied by ANNEXES, comprising,	
a. 🖾 Sent to the applica	ant and to the International Rurooul a to	otal of 2 sheets on follows
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# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/051064

_	Box No. I Basis of the repo	ort
1	. With regard to the language, to filed, unless otherwise indicates	his report is based on the international application in the language in which it was
	☐ This report is based on tra which is the language of a ☐ international search (ui ☐ publication of the intern ☐ international preliminar	nslations from the original language into the following language, translation furnished for the purposes of: nder Rules 12.3 and 23.1(b)) national application (under Rule 12.4) y examination (under Rules 55.2 and/or 55.2)
2.	With repard to the clamantat a	f the international application, this report is based on (replacement about which
	Description, Pages	
	1-8	as originally filed
	Claims, Numbers	
	1-9	filed with telefax on 23.08.2005
	Drawings, Sheets	
	1/6-6/6	as originally filed
	☐ a sequence listing and/or ar	y related table(s) - see Supplemental Box Relating to Sequence Listing
3.	<ul> <li>☐ The amendments have resulted in the cancellation of:</li> <li>☐ the description, pages</li> <li>☐ the claims, Nos.</li> <li>☐ the drawings, sheets/figs</li> <li>☐ the sequence listing (specify):</li> <li>☐ any table(s) related to sequence listing (specify):</li> </ul>	
4. [	the description, pages the claims, Nos. the drawings, sheets/figs the sequence listing (spec	shed as if (some of) the amendments annexed to this report and listed below ave been considered to go beyond the disclosure as filed, as indicated in the cify):  Quence listing (specify):  The or all of these sheets may be marked "superseded".
	FF357 501	. Of all Of these sheets may be marked "supergoded "

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/051064

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-9

No: Claims

No:

none

Inventive step (IS)

Yes: Claims

Claims

1-9

Industrial applicability (IA)

Yes: Claims

none 1-9

No: Claims

none

2. Citations and explanations (Rule 70.7):

see separate sheet

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

### Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document:

- D1: PATENT ABSTRACTS OF JAPAN vol. 1997, no. 03, 31 March 1997 (1997-03-31) -& JP 08 313880 A (ROHM CO LTD), 29 November 1996 (1996-11-29)
- 1. The present invention relates to a component carrier (claim 1), in particular for an LCD, and a method of making such a carrier (claim 8).
- 2. Document D1, which is considered to represent the most relevant state of the art, discloses a component carrier comprising a frame and a double-sided sealing leap, the sealing leap providing mechanical force tolerance and compensation for the component encased in the frame and sealing lip.

The solution proposed in claim 1 differs from this known carrier at least in that

- the sealing lip is dovetailed and comprises a thermoplastic elastomer and two arms, one of said arms being longer than the other, and
  - the frame comprises recesses for the elastomer to adhere to.

The subject matter of claim 1 appears, therefore, novel (Article 33(2) PCT).

3. The specific shape of the sealing lip and the recesses in the frame allow to provide the component carrier in a cost efficient and effective manner.

None of the other cited documents, which reflect the technological background, discloses or gives an incitement to the specific solution defined in claim 1.

In view of the available prior art, the subject matter of claim 1 appears, therefore, to involve an inventive step (Article 33(3) PCT).

- 4. Independent claim 8 is directed to a method of making the inventive carrier of claim 1 and its subject matter involves, consequently, also an inventive step.
- 5. Claims 2 7 and 9 which define preferred embodiments of the invention are dependent on claim 1 or 8, respectively, and as such also meet the requirements of the EPC in respect of novelty and inventive step.

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/EP2004/051064

## Re Item VII

## Certain defects in the international application

1. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in document D1 is not mentioned in the description, nor is this document identified therein.

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2003P05592WO 23.08.2005 10

#### AMENDED PAGES

#### Claims:

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- 1. A component carrier (100) comprising a frame (10) and a doubled sided sealing lip (50), the sealing lip (50) providing mechanical force tolerance and compensation for the component encased in the frame (10) and sealing lip (50), characterized in that:
  - the sealing lip (50) is dovetailed and comprises a thermoplastic elastomer and two arms (58a and 58b), a first (58a) of said two arms (58a and 58b) being longer than a second (58b) of said two arms, and
  - the frame (10) comprises recesses for the elastomer to adhere to.
- 2. The component carrier (100) according to claim 1, 20 wherein the sealing lip (50) comprises a single piece.
- 3. The component carrier (100) according to any one of the preceding claims 1 to 2, wherein the frame (10) comprises walls (14) defining an interior opening (12) and the recesses (20) are located along the interior opening (12).
- 4. The component carrier (100) according to any one of the preceding claims 1 to 3, wherein the recesses (20) are open V shaped.

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NR. 122 EP0451064

2003P05592WO 23.08.2005 11

#### AMENDED PAGES

- 5. The component carrier (100) according to any one of the preceding claims 1 to 5, wherein the sealing lip (50) is dovetailed comprising two extending arms (58a, 58b), a first(58a) of the two arms (58a, 58b) being longer than a second (58b).
- 10 6. The component carrier (100) according to claim 5, wherein the first arm (58a) faces a front (62).
  - 7. The component carrier (100) according to any one of the preceding claims 1 to 6, wherein the component is a display.
    - 8. A method of making a component carrier (100) according to claim 1, characterized by:
  - injection molding and/or spraying a sealing lip (50) around a frame (10), the sealing lip (50) comprising a thermoplastic elastomer, the frame (10) comprising walls (14) defining an interior cavity (12) with recesses (20) along cavity walls (18), and the sealing lip (50) being molded in the shape of a dovetail, and
    - cooling the sealing lip (50) generated by injection molding and/or spraying such that the sealing lip (50) molding adheres to the recesses (20).
    - 9. The method according to claim 8, wherein the injection molding comprises thermoplastic elastomer.

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